PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P802909/WO/1			FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No. PCT/EP2004/004827		International fil	ing date (day/month/year)	Priority date (day/month/year)		
		06.05.2	06.05.2004	25.06.2003		
pplicant	tent Classification	(IPC) or national classificatio	n and IPC			
1. This r	eport is the intern	ational preliminary examinat	ion report, established by this	s International Preliminary Examining Authority		
under	Article 35 and tran	nsmitted to the applicant accor				
2. This P	REPORT consists of	of a total of 7	sheets, includ	ing this cover sheet.		
3. This re	eport is also accon	npanied by ANNEXES, comp	rising:			
a. \	$\int \int $	applicant and to the Internatio	onal Bureau) a total of 6	sheets, as follows:		
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets the dis Box.	which supersede earlier sheet closure in the international appropriate the contraction of	s, but which this Authority copplication as filed, as indicate	onsiders contain an amendment that goes beyond ed in item 4 of Box No. I and the Supplementa		
ъ. Г	_	'nternational Bureau only) a to	otal of (indicate type and num	ber of electronic carrier(s))		
о	(Sem to me i	THE PRODUCTION DUTCON OTHERS OF A CO	or (moreone type and me			
	related thereto	in computer readable form	only, as indicated in the Supp	, containing a sequence listing and/or tables plemental Box Relating to Sequence Listing (see		
		the Administrative Instruction				
4. This r	report contains ind	ications relating to the followi	ing items:			
\boxtimes	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III		on with regard to novelty, inve	entive step and industrial applicability		
\Box	Box No. IV	Lack of unity of invention	-			
Box No. IV Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement						
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the intern	ational application			
\boxtimes	DQX 140. 4 11					
	Box No. VIII	Certain observations on the	international application			
	Box No. VIII			this report		
Date of submis			Date of completion of	this report		
	Box No. VIII	1	Date of completion of	this report		
.	Box No. VIII	1		this report		

International application No. PCT/EP2004/004827

Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language ____ which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description: as originally filed/furnished 1,2,6,7,9-17 21.06.2004 with letter received by this Authority on of 14.06.2004 19.04.2005 with letter received by this Authority on of 11.04.2005 the claims: as originally filed/furnished 1,3-7,9,11-14,17-22 as amended (together with any statement) under Article 19 nos.* 19.04.2005 with letter received by this Authority on of 11.04.2005 2,8,10,15,16 received by this Authority on nos.* the drawings: as originally filed/furnished received by this Authority on _____ sheets* received by this Authority on sheets* a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

International application No.
PCT/EP2004/004827

Box No. V		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement						
	Novelty	(N) Claims	1-22	YES			
		Claims		_ NO			
	Inventiv	re step (IS) Claims	1-22	_ YES			
		Claims		_ NO			
	Industri	al applicability (IA) Claims	1-22	YES			
				_ NO			
<u>_</u>	Citations	nd explanations (Rule 70.7)					
2.	1	The present report re:	fers to the following				
	T	_	LCID CO CHC LCLLOWLING				
		documents:					
		D1. ED 0 929 296 B /AF	(ZO NOBEL NV) 5 December 2001				
			(20 NOBEL NV) O December 100-				
		(2001-12-05)	EDNED CODMINI 16 April 1985				
4			ERNER GODWIN) 16 April 1985				
		(1985-04-16).					
<u>.</u>	2	Novelty					
	2.1	2.1 Novelty of independent claims 1, 2, 14, 15 and 1					
		The subject matter of	the invention, as disclosed				
		in claims 1, 2, 14, 1	n claims 1, 2, 14, 15 and 16, is novel with				
		respect to the cited	prior art documents D1 and D2				
		(PCT Article 33(2)).					
		The distinguishing te	chnical feature is the free-				
		radical polymerisation in the presence of a) an					
		N,N,-diacyl hydroxyla	mine or its derivatives as				
			tiary amines or metal ions,				
			plurality of oxidation				
		stages as coinitiato					

International application No.

PCT/EP2004/004827

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.2 Novelty of dependent claims 3-13 and 17-22

Since the subject matter of all the independent claims is novel, the subject matter of all the dependent claims is likewise novel within the meaning of PCT Article 33(2).

- 3. Inventive step
- 3.1 Claims 1-22

Document D1 is the closest prior art. The problem to be solved by the present invention is understood to be that of providing storable initiator systems having a low activation temperatur and suitable for thermally initiated free-radical polymerisation reactions of ethylenically unsaturated monomers and/or oligomers, which are also able to function in the presence of oxygen.

The applicant solved this problem by means of the distinguishing feature. A solution of this kind is not suggested in document D1 alone or in a combination with documents D1 and D2.

Consequently, the claimed initiator systems (based on N,N-diacyl hydroxylamines or their derivatives), their use for the cross-linking and curing of polymerisable preparations such as paints, glues, resins, moulding materials and

International application No.
PCT/EP2004/004827

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY		PCT/EP2004/004827			
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fillers, and polymerisation methods carried out in					
	the presence of these initiator systems involve an				
inventive step within the meaning of PCT Article					
	33(3).				
4.	Industrial applicability				
	The invention is clearly industrial				
in the field of thermally initiate					
	polymerisation (PCT Article 33(4)).				
5.	The application satisfies the requi	rements of PCT			
	Article 33(1).				

International application No.
PCT/EP2004/004827

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

6. Obvious errors in the structural formula (4) on page 4 and the structural formula (5) on page 5 of the original description were rectified by the applicant in the letter of 14 June 2004. The corrections satisfy PCT Rule 91.1(a) and (b).

International application No.

PCT/EP2004/004827

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

7. Bringing the description into line with an amended set of claims

Pursuant to PCT Rule 5.1(a)(iii), the description must disclose the invention as it is disclosed in the claims. Since this is not the case with the present application, PCT Rule 5 is not satisfied.

The presence of a coinitiator is not a necessary technical feature of all the independent claims. For this reason, all passages describing coinitiators as optional components must be reworded accordingly, for example on page 7, lines 6-19, page 8, lines 14-15 ("generally a plurality of oxidation steps"), page 11, lines 10-11 ("possibly"), page 11, lines 29-30 ("can ... be assisted by a coinitiator") and page 12, lines 1-2.

Page 13, lines 7-32, should clearly state that the invention concerns only coinitiator-containing systems and methods.